

專業 TPU 製造商，您的最佳選擇
Professional TPU Manufacturer, Your Best Choice

GOLDTHANE®

低溫 TPU 的極致工藝

產品安全資料表和規格說明書因應客戶需求提供。
Product safety data information and specification data sheet is available by request.

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神揚工業股份有限公司
SUN YANG GLOBAL CO., LTD.

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公司介紹

神揚工業股份有限公司是業界領先的熱塑性聚氨酯材料製造商，以“Goldthane® TPU”品牌營銷，為 TPU 擠出、壓延、複合和接著劑應用提供創新的產品。神揚工業股份有限公司也是永純化學工業股份有限公司的獨資子公司，從 1965 年開始從事聚酯多元醇樹脂的製造。

神揚工業股份有限公司在競爭激烈的全球貿易版圖中，透過銷售量與獲利的健全組合，迅速擴展我們的事業版圖。我們專精於熱塑性聚氨酯樹脂的製造，將營運策略建構於科技、服務、品質及環境之四大面向，持續挑戰、進步，提供市場更專業的產品與服務。

聚集多年研究開發經驗、對全球化工產業趨勢的敏銳知覺，成就 Goldthane® 在低溫 TPU 科技的靈活創新，符合客戶當地各種產業應用需求。Goldthane® 勇於挑戰最新技術，細節導向的服務，致力建立客戶夥伴關係，客製化您的商機，共享雙贏、共創未來。堅持提供高品質的全方位產品，聆聽每位客戶的應用需求，追求供應可靠信賴、更具經濟效益以及高滿意度的創新服務。緊密掌控每項作業的執行，以合乎最高標準的環境安全規範，確保所有員工、客戶、社區及環境的健康與永續發展。

Sun Yang Global Co. Ltd., is a leading thermoplastic adhesive material manufacturer, marketing with the brand name “Goldthane® TPU”, providing innovating products for extrusion, calendaring, compounding and adhesive applications. Sun Yang Global Co. Ltd., is also a wholly-owned subsidiary of Yong Shun Chemical Co., Ltd., engaging in polyester resin manufacturing since 1965.

Sun Yang Global Co. Ltd., has accelerated sales expansion in the volatile world market through a healthy combination of volume and earning increase. Specializing in production and sale of thermoplastic polyurethane elastomers, we shape our business strategies into the dimensions of technology, service, quality, and environment to ensure our overall excellence.

With a keen sense on the trend of global chemical industry experience in R&D, innovative low temperature TPU **technology** has been applied to satisfy local customers' needs in various industry sectors. With the continual drive to challenge the latest technology, our detail-driven **service** aims to develop close business partnership and look for mutual growth potential. We pursue high **quality** in all aspects of product portfolio, and take every customer's requirements and applications into account for higher safety, longer service life, and greater customer satisfaction. We pay close attention to every step in the operation so that the product of the highest standard is produced in a safe **environment** where the health and wellbeing of our employees, customers and community is guaranteed.



核心價值

- 安全與責任
- 創新
- 道德倫理
- 客戶夥伴關係



GOLDTHANE®

品牌價值

Goldthane® 是神揚工業股份有限公司的品牌名稱，專注於發展低溫 TPU 的極緻工藝，提供各種不同獨特特性之產品，如高回彈、尼龍材質貼合、不黃變、手感訴求、富有彈性、和不同軟硬度的需求。

Goldthane® 開發溶劑型 TPU 膠黏劑，熱融膠系列則對應至無溶劑型的 TPU 需求，以回應環保意識及實踐企業社會責任。神揚工業在產品多元化與市場競爭之下，秉持與客戶長期合作夥伴關係之經營理念，以創新、環保、再生利用、提升產品價值的方向致力於複合材料開發，與客戶共創雙贏局面。

Goldthane® is the brand name of Sun Yang Global Co., Ltd., which focuses on low temperature TPU innovation, featuring special properties including high rebound elasticity, nylon bonded, non-yellowing, quality texture, flexibility, and solidity. Goldthane® developed solvent-based adhesives, solvent-free adhesives, in response to the environmental awareness and our corporate mission.

SUN YANG GLOBAL CO., LTD. upholds its commitment to establish a long-term trusting, cooperative partnership with customers under global market diversification and competition condition. We are committed to developing composite TPU materials with innovation, environmental protecting conception, recycling and upgrading product value to create the win-win situation with customers.

未來展望

2019-2020

- TPU 供應鏈整合
- TPU Supply Chain Conformity

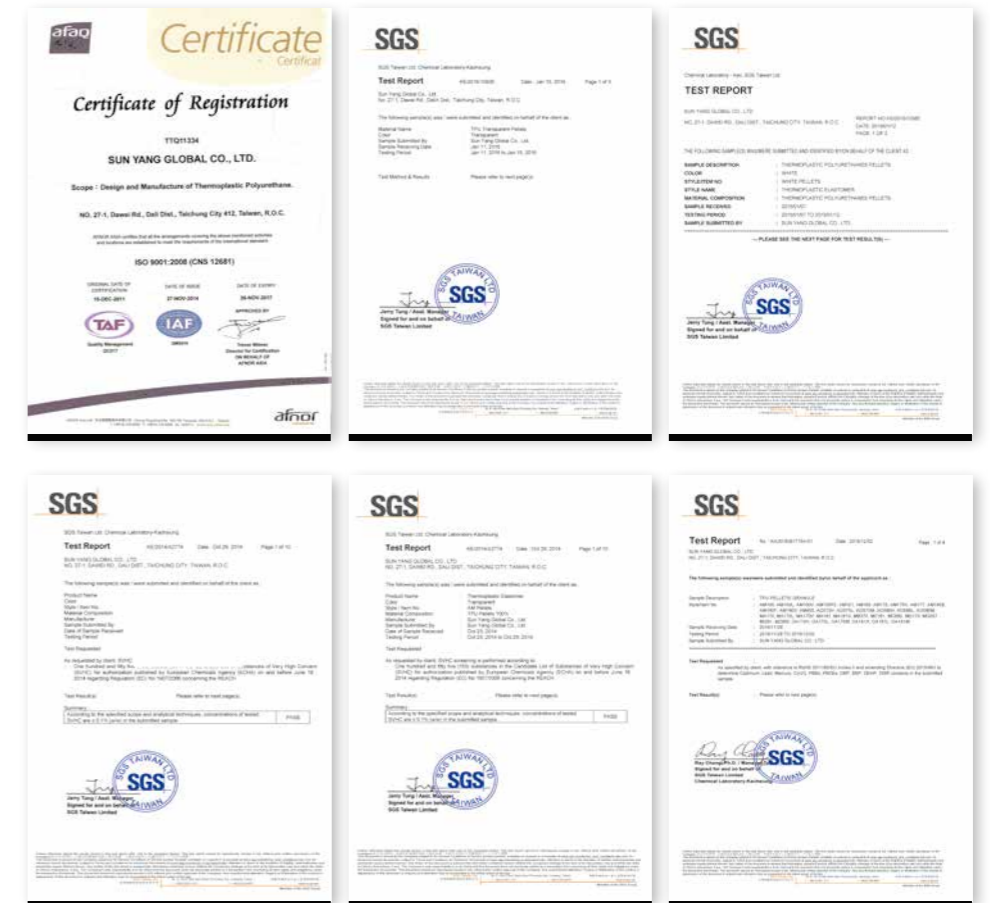
2018

- 防水透濕級 TPU 產品開發
- Development of Waterproof & Breathable TPU Product

2017

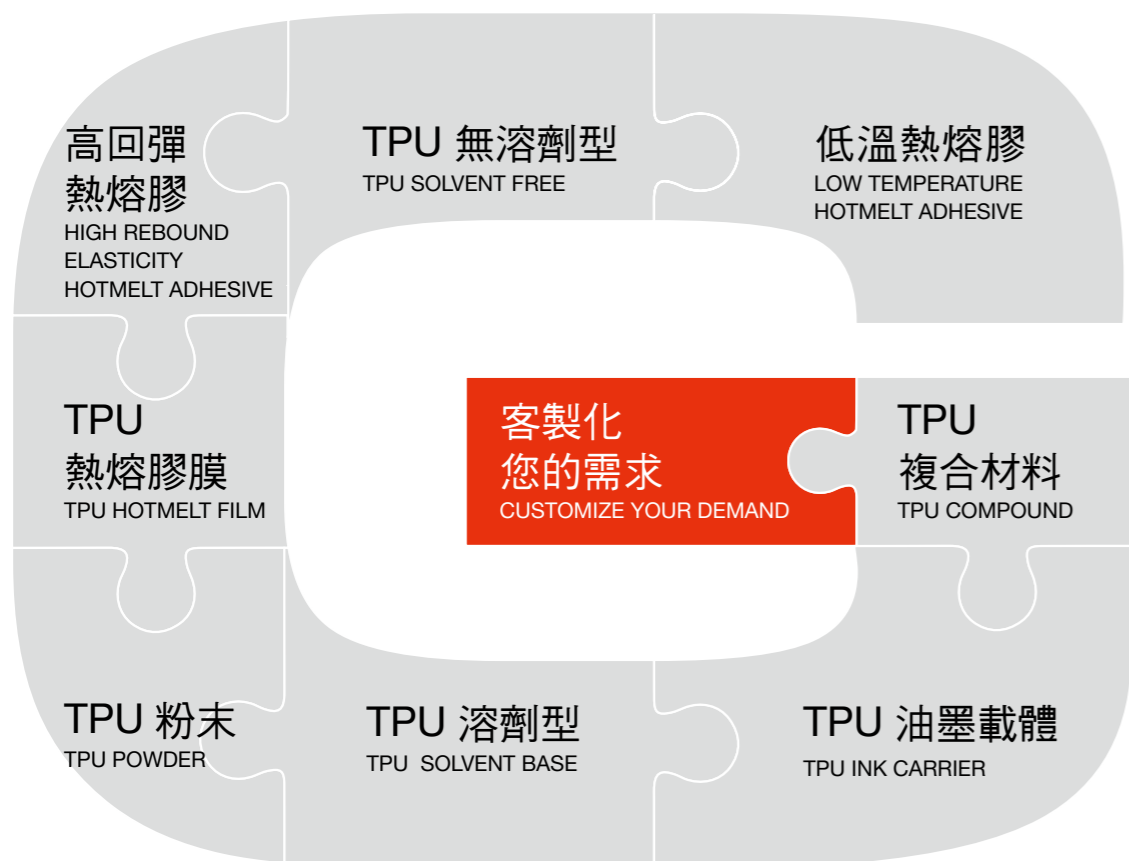
- 不黃變系統增進
- 異質材料貼合
- 機能性材料開發
- Improvement of Non-yellowing System(Aliphatic)
- Bonding of Heterogeneous Materials
- Development of Functional Material

認證資格



- ✓ 取得 AFAQ-AFNOR Group ISO 9001 認證
- ✓ SGS 檢測 EN71-3 不含 19 項重金屬檢測標準
- ✓ SGS 檢測 不含有機錫
- ✓ SGS 檢測 通過 REACH SVHC 161 項高度關切物質
- ✓ SGS 檢測 無苯酚
- ✓ SGS 檢測 通過危害性物質限制指令 (RoHS) 限用六大有害物質
- ✓ ISO 9001 Certification approved by AFAQ-AFNOR Group
- ✓ SGS Certification Accredited to EN71 standard for section 3
- ✓ SGS Certification Non organic tin
- ✓ SGS Certification REACH SVHC 161 substances of very high concern
- ✓ SGS Certification Phenol free
- ✓ SGS Certification RoHS directive

產品組合



G GOLDTHANE®



無溶劑型 TPU 系列

NON-SOLVENT TPU SERIES

應用：熱熔膠膜、粉、複合材

對無溶劑應用日趨成長的高度關注下，Goldthane® 無溶劑型系列能展現有效及高經濟附加價值的解決方案。散佈在紡織布材或是無紡布間，經由後加工熱壓，在加強整度與強化塑形效果上，可有絕佳的整體表現。擁有極佳的貼合牢度及廣泛黏度選擇下，更能精準符合您客製化的需求。

無溶劑型產品提供高回彈性、多樣的熔融流動性、貼合強度及優異的柔軟手感；可經由押出淋膜機、熱熔塗佈和吹膜機製成薄膜。適用於鞋業、傢俱業、汽車工業和消費性電子產品配件。另有針對特殊需求，Goldthane® 無溶劑型亦可磨成粉末應用於撒粉塗佈，符合環保法規及永續發展的訴求。

TPU 與各種生質材或塑料進行混鍊加工，可有效結合材料特色並發揮 TPU 特有之延展性、柔軟性、韌性等優點，增加產品應用範圍且友善環境。

複合材料可廣泛應用於 3D 列印材料、背袋扣環、汽車零件、防塵罩、止滑帶... 等各項產品，以材料創新滿足客戶及提升獲利及產品市場競爭力。

Application: Hotmelt film, Powder, Composite material

Recognizing the increasing level of interests in searching for solvent free application, Goldthane® Non-solvent TPU series demonstrates an effective and value-added solution. Interlined into woven or non-woven fabrics, then processed via heat presses, melted Goldthane® Non-solvent TPU series gives extra hardness to form and shape. Great heat bonding performance in variety of viscosities allows it to be customized to suit your needs.

Goldthane® Non-solvent TPU series can fulfill the requirement of high resilience, good melt flow-ability, great bonding strength, and premium soft touch characteristics; by extrusion lamination, hotmelt coating or film blowing to make TPU low temperature hotmelt film. These features can be applied to footwear, furniture, automobiles and various consumer electronics. For specific surface bonding, or environmental regulation control, Goldthane® Non-solvent TPU series can also be ground into a powder form and apply by scattering coating.

The composite TPU can be effective to take TPU characteristic such as high ductility, softness, toughness and other particular advantages into material. Extending the material applications range and improve Eco-friendliness. The composite TPU can apply for 3D printing, Medical splint, bag accessory, car parts, dust cover, slip tape, etc. Composite TPU innovation meets customer's inquiry and enhance profitability and product market competitiveness.



特點

- 環保
- 低溫可塑性
- 良好的柔韌性
- 優異的初期黏著性能
- 增加耐衝擊
- 增加韌性
- 高相容性
- 高挺性
- 回復性佳 (耐用性)
- 回彈性佳 (舒適性)
- 多種材料選擇
- 加工便利、低溫作業
- 複合材料的塑料改性

CHARACTERISTICS

- Environment friendly
- Low-temperature plasticity processing
- Excellent flexibility and toughness
- High initial bonding strength
- Excellent impact resistance
- Excellent toughening
- Excellent compatibility
- Excellent stiffness
- Excellent recovery (Durable)
- Excellent resilience (Comfortable)
- Various options for applications
- Low operation temperature, easy apply
- Efficiency to enhance special properties

品名 Items	檢測溫度 Testing Temperature	熱熔黏度 Viscosity	熔融指數 Melt Flow Index	硬度 Hardness	熔點 Melting Point	軟化點 Softening Point	建議貼合材質 Suggest Bonding Material	特性 Characteristic
單位 Unit	°C	Poise	g/10min	Shore A	°C	°C	-	-
MA170	175	9500-13000	8-12	75A	95-110	75-90	聚酯、尼龍、 防潑水布 Polyester, Nylon, Water repellent fabric	通用型 熱熔膠 General grade hotmelt adhesive
	150	5000-7000	15-20		95-105	70-80		
MA170L	150	2000-4000	25 ↑	75A	90-105	65-80	聚酯、尼龍、 防潑水布 Polyester, Nylon, Water repellent fabric	噴塗用高流動性 熱熔膠 Sprayed high fluidity hotmelt adhesive
MA181	150	5000-9000	10-20	80A	90-105	70-85	聚酯、尼龍 Polyester, Nylon	通用型 熱熔膠 General grade hotmelt adhesive
MC682	175	9500-13000	8-12	80A	115-125	85-100	聚酯、尼龍 Polyester, Nylon	鞋面布用 熱熔膠 Shoes surface fabric hotmelt adhesive
MC161	177	6000-7000	15-20	65A	70-85	50-65	聚酯 Polyester	低硬度 熱熔膠 Low hardness hotmelt adhesive



品名 Items	檢測溫度 Testing Temperature	熱熔黏度 Viscosity	熔融指數 Melt Flow Index	硬度 Hardness	熔點 Melting Point	軟化點 Softening Point	建議貼合材質 Suggest Bonding Material	特性 Characteristic
單位 Unit	°C	Poise	g/10min	Shore A	°C	°C	-	-
AM190V	177	5000-12000	10-20	90A	100-120	80-95	聚酯、尼龍 Polyester, Nylon	鞋面布用 熱熔膠 Shoes surface fabric hotmelt adhesive
AM180V	177	5000-12000	10-20	85A	120-130	90-105	聚酯、尼龍 Polyester, Nylon	鞋面布用 熱熔膠 Shoes surface fabric hotmelt adhesive
MB370	150	10000-19000	5-10	75A	80-90	60-70	聚酯、尼龍、 防潑水布、 Polyester, Nylon, Water repellent fabric	高黏著性 熱熔膠 PCL base hotmelt adhesive
MD170	150	3000-8000	15-25	78A	120-135	70-90	尼龍、麂皮、 天然皮革 Nylon, Suede, Nature leather	皮革用 熱熔膠 Nature leather hotmelt adhesive
ME091	150	4500-6500	15-20	95A	70-90	60-70	聚酯、尼龍、 麂皮、天然皮革 Polyester, Nylon, Suede, Nature leather	噴塗皮革用 熱熔膠 Sprayed nature leather hotmelt adhesive



品名 Items	檢測溫度 Testing Temperature	熱熔黏度 Viscosity	熔融指數 Melt Flow Index	硬度 Hardness	熔點 Melting Point	軟化點 Softening Point	建議貼合材質 Suggest Bonding Material	特性 Characteristic
單位 Unit	°C	Poise	g/10min	Shore A	°C	°C	-	-
AM160	150	6500-8500	10-15	65A	60-75	45-55	聚酯、尼龍、高細丹尼龍布、防潑水布 Polyester, Nylon, High denier nylon, Water repellent fabric	貼合尼龍布專用熱熔膠 Nylon fabric specialty hotmelt adhesive
MI291	150	1500-3500	25 ↑	90A	115-130	90-105	聚酯、尼龍、高細單尼龍布 Polyester, Nylon, High denier nylon	噴塗用不黃變熱熔膠 Sprayed non-yellowing hotmelt adhesive
MG057	190	9000-15000	-	60A	130-145	85-100	聚酯、尼龍、彈性纖維 Polyester, Nylon, Spandex	高回彈性熱熔膠 High rebound elasticity hotmelt adhesive
MG059	190	3000-15000	-	65A	110-120	80-90	聚酯、尼龍、彈性纖維 Polyester, Nylon, Spandex	高回彈性熱熔膠 High rebound elasticity hotmelt adhesive

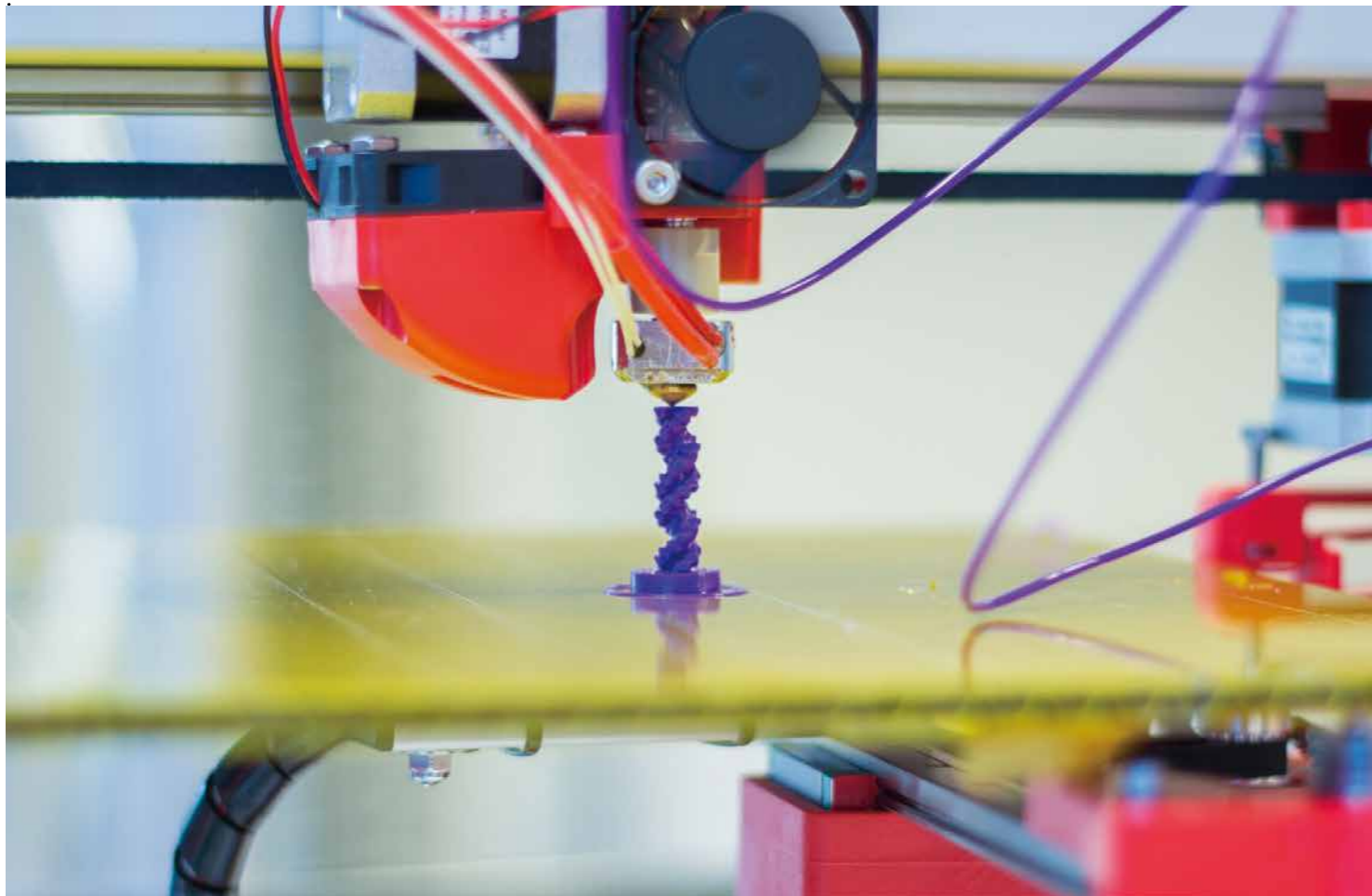


品名 Items	檢測溫度 Testing Temperature	熱熔黏度 Viscosity	熔融指數 Melt Flow Index	硬度 Hardness	熔點 Melting Point	軟化點 Softening Point	結晶速率 Crystallization Rate
單位 Unit	°C	Poise	g/10min	Shore A	°C	°C	-
ME792	150	4000-50000	2-20	97A	60-75	60-70	★★★★☆
ME291	170	5000-12000	6-20	97A	65-70	60-65	★★★★☆
ME790	150	5000-12000	8-20	97A	60-70	60-65	★★★★☆
CI091	150	-	5-20	95A	50-60	60-70	★★★★★

★★★★★ : Excellent
 ★★★★★☆ : Very Good
 ★★★★☆ : Good
 ★★★☆☆ : Fair
 ★☆☆☆☆ : Slow

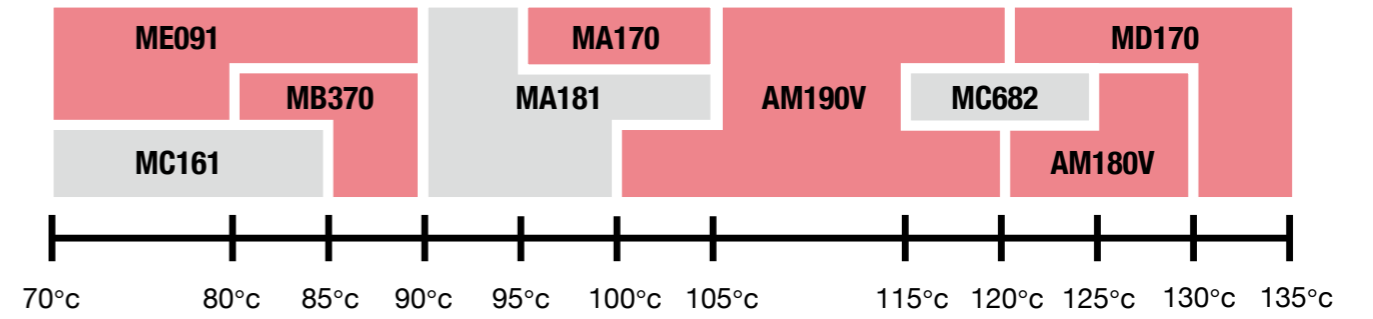


品名 Items	檢測溫度 Testing Temperature	熱熔黏度 Viscosity	熔融指數 Melt Flow Index	硬度 Hardness	熔點 Melting Point	軟化點 Softening Point	複合材料 Composite TPU
單位 Unit	°C	Poise	g/10min	Shore D	°C	°C	-
CI101	190	3000-8000	15-30	83D	165-185	75-90	3D 列印 改質複合材料 3D printing composite TPU
CI792	190	3000-8000	15-35	60D	95-115	60-75	射出級 快結晶低溫 記憶型材料 Injection grade fast crystallization, low processing temperature memory material



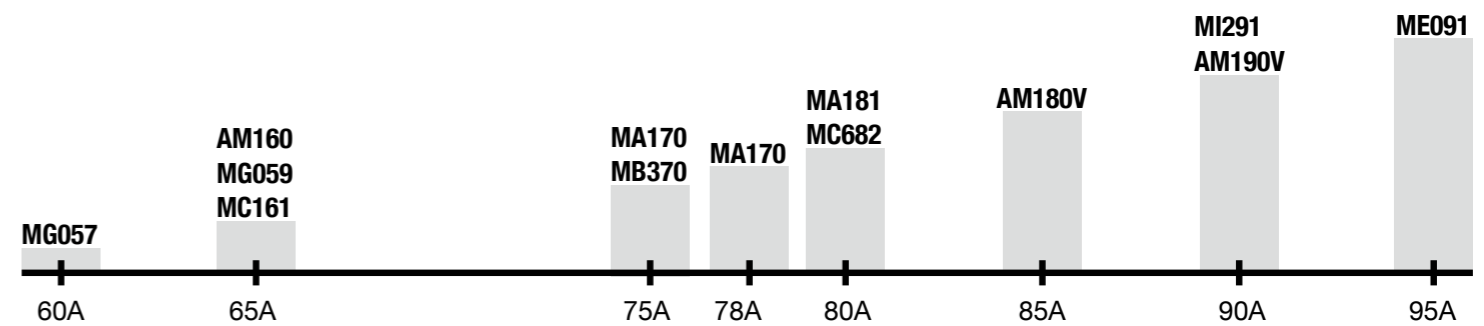
熔點比較表

MELTING POINT RANGE



硬度比較表

HARDNESS RANGE



溶劑型 TPU 系列

SOLVENT BASE TPU SERIES

應用：製鞋用膠水、木工膠、織物塗佈

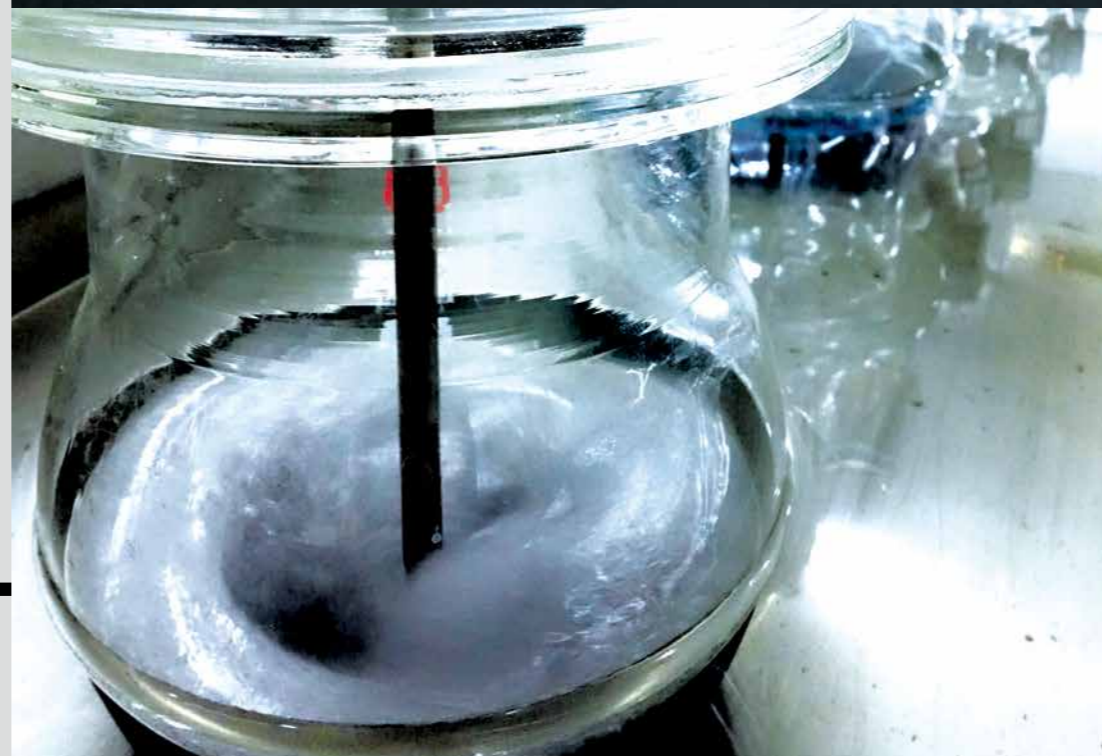
滿足各鞋業、紡織業、家具業或安全用品的尖端產業之需求，Goldthane® 溶劑型系列 TPU 適用於各種加工製程，展現優越作業效率及多樣材質貼合效果，如橡膠、熱塑性橡膠、聚氯乙烯、PU 塑膠或皮革。

Goldthane® 溶劑型系列提供廣泛可黏時間、客製化黏度及獨特物理特性的產品組合。針對客戶提出高抗 UV 等級的特殊需求，Goldthane® AD291 系列可提供 4 至 5 級間的有效防護。

Application: Shoes adhesive, Wood adhesive, Fabric coating.

Goldthane® solvent base TPU is designed on solvent based adhesives grade to fulfill requirements of footwear, textile, and furniture manufactures. Goldthane® solvent base TPU creates safe industrial products in various manufacture conditions, and perform excellent efficiency with outstanding bonding. It can be applied to various materials, such as rubber, TPR, PVC, PU and leather.

Goldthane® solvent base TPU offer a variety of tack free time, customized viscosities and unique physical properties, for application by spraying or rolling. For example, in response to the special demand of high UV resistance, non-yellowing grade Goldthane® AD291 can effectively resist against solar radiation ranging from 4 to 5 degree of UV-resistance.



特點

- 黏度範圍廣
- 耐候性佳
- 可加工溫度範圍廣
- 可黏時間選擇性高
- 接著強度佳
- 抗 UV 不黃變
- 耐熱性佳
- 添加固化劑可用時間長
- 溶解力佳

CHARACTERISTICS

- Wide of viscosity range
- Excellent weathering resistance
- Wide of processing temperature range
- High selectivity of open time
- Excellent bonding strength
- Excellent UV - resistance
- Excellent heat resistance
- Long pot life with curing agent
- Excellent solubility

品名 Items	溶解黏度 Viscosity (15% in MEK@25°C)	活化溫度 Activation Temperature	耐熱溫度 Heat Resistance	結晶速率 Crystallization Rate	產品特性 Characteristic
單位 Unit	CPS	°C	°C	-	-
AD190-04	200-600	60-70	>60	★★★★☆	通用級 General grade
AD190-18	1600-2000	60-70	>72	★★★★☆	通用級 General grade
AD190-30	2800-3200	65-75	>75	★★★★☆	通用級 General grade
AD291-04	200-600	60-70	>50	★★★★☆	不黃變級 Non-yellowing grade
AD291-18	1600-2000	65-75	>55	★★★★☆	不黃變級 Non-yellowing grade
AE491	200-600	60-70	>45	★★★★★	易溶解 high solubility
AE093	1500-2500	60-75	>55	★★★★★	易溶解 high solubility
AH790	1600-2000	65-75	>70	★★★★★	高結晶速率 High crystallization rate
AG381	1600-2000	60-70	>70	★★★★☆	聚己內酯級 Polycaprolactone 低活化溫度 Low activation temperature
AG581	1600-2000	60-65	>37	★★★☆☆	可黏時間長 Long open time

★★★★★ : Excellent
 ★★★★★☆ : Very Good
 ★★★★☆☆ : Good
 ★★★☆☆☆ : Fair
 ★★☆☆☆☆ : Slow



油墨載體 TPU 系列

INK CARRIER TPU SERIES

應用：熱轉印、網版印刷

Goldthane® 油墨載體系列為油墨塗料載體研製，適用於鞋業和紡織工業用多種基材塗料，可應用於網版印刷、凹版印刷和油墨噴塗加工。因其良好的耐磨耗、分散性、顯色性和其他特殊物性，使其在 PVC, PU, TPU 和紙材上黏著效果極佳，此系列亦依不同客製需求黏度提供相應規格。

特點

- 耐磨耗佳
- 分散性佳
- 顯色性佳
- 韌性佳
- 服貼效果佳
- 易操作使用

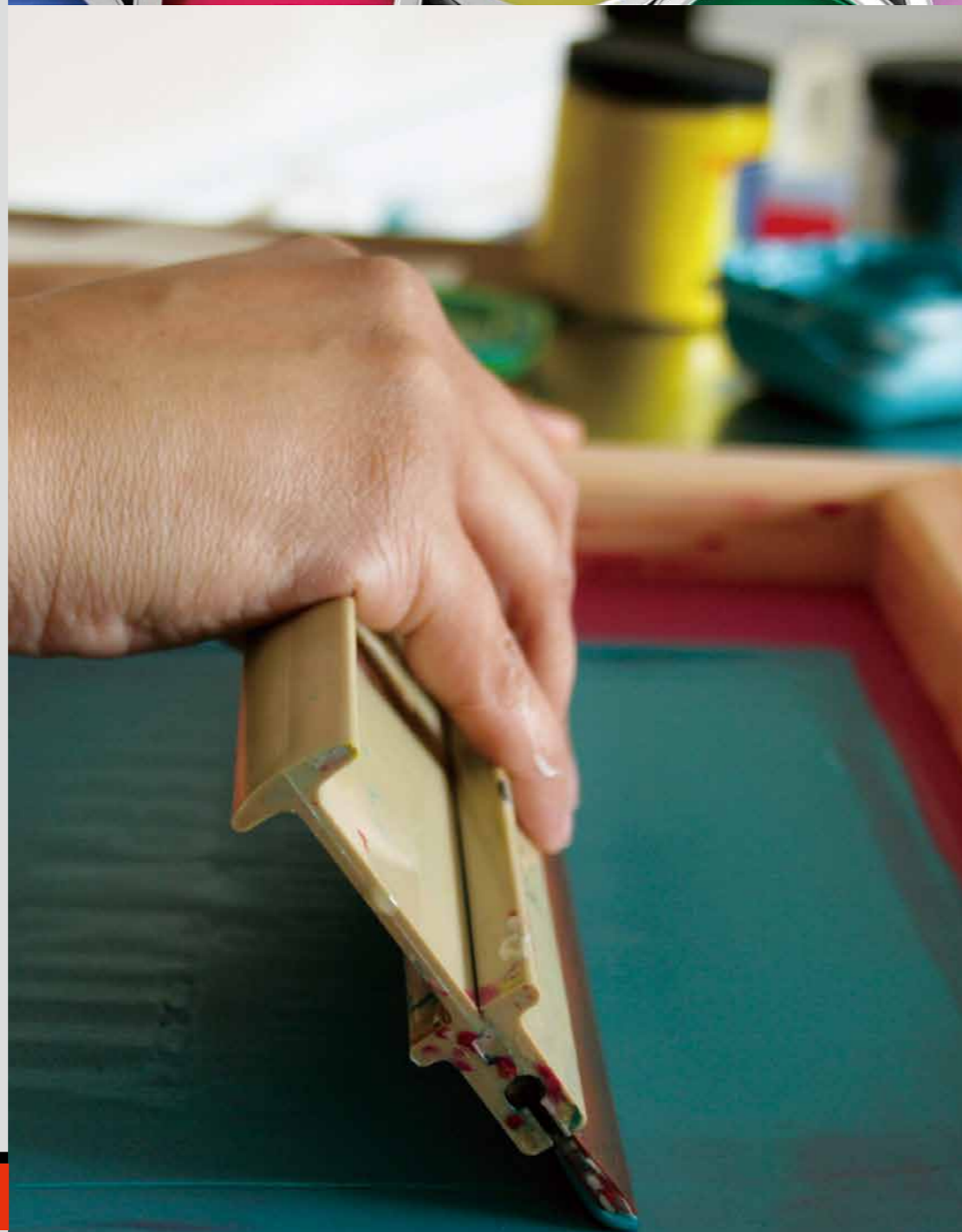
Application: Heat transfer process, screen printing

Goldthane® Ink carrier series is developed for use as a carrier of ink coating for processes such as screen printing, intaglio printing and various kinds of ink printing for substrate material of footwear and textile industry. It provides excellent adhesion on PVC, PU, TPU and paper due to its abrasion resistance, fine dispersion, color rendering and other special physical properties. Extensive range of customized viscosity is available to meet different customer's demand.

CHARACTERISTICS

- Excellent abrasion resistance
- Excellent dispersion
- Excellent color rendering
- Excellent toughness
- Surface flatness with adhesion
- Easy for application

INK CARRIER TPU SERIES



品名 Items	溶解黏度 Viscosity (30% ANONE@25°C)	硬度 Hardness	熔點 (°C) Melting Point	軟化點 (°C) Softening Point	伸長率 Elongation
單位 Unit	CPS	Shore A	°C	°C	%
OA170H	15000-25000	75A	95-105	70-80	400-600
OA170M	10000-15000	75A	95-105	70-80	500-700
OA170L	4000-10000	75A	95-105	70-80	600-800
OA181H	15000-25000	90A	100-120	80-95	400-600
OA181M	10000-15000	90A	100-120	80-95	400-600
OA181L	4000-10000	90A	100-120	80-95	400-600
OA185H	15000-25000	85A	120-130	90-105	400-600
OA185M	10000-15000	85A	120-130	90-105	400-600
OA185L	4000-10000	85A	120-130	90-105	400-600
OA792H	15000-25000	97A	60-75	60-70	700-900
OA792M	10000-15000	97A	60-75	60-70	700-900
OA792L	4000-10000	97A	60-75	60-70	700-900